



The Information Institute

30 November
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Mr. John A. Graniero
Director Information Institute
AFRL/RIB
Bldg 106 ROOM B-118
PHONE 330-3251
John.Graniero.ctr@rl.af.mil

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Information Institute



- **What:**

- A Virtual Organization: Consortium of Universities Performing Research in Areas of Information Technology of Interest to the Information Directorate

- **Mission:**

- Strengthen and Expand Information Technology Research within the Information Directorate
- Develop collaborative relationships among and between the academic members and the Information Directorate.
- Increase research emphasis in areas of information technologies critical to RI's vision



Information Institute Current Membership



AF Academy
AF Institute of Technology
AFRL Information Directorate
Arizona State University
Carnegie-Mellon University
Central Michigan University
Central State University
City University of NY
Clarkson University
Cornell University
Dartmouth University
Drexel University
George Mason University
Harvard University
Illinois Institute of Technology
Iona College
Louisiana State University
Louisiana Tech University
Mohawk Valley Community College

Montana State University
Montclair State University
Prairie View A&M University
Purdue University
Rochester Institute of Technology
San Diego State University
Southern Illinois University Carbondale
SUNY Binghamton
SUNY Institute of Technology at Utica/Rome
SUNY Oneonta
SUNY Stony Brook
Syracuse University
Temple University
Tennessee State University
Texas Tech University
University of Alabama
University of Alaska at Fairbanks
University at Buffalo

University of Central Florida
University of Connecticut
University of Fairfax
University of Illinois at Chicago
University of Illinois at Urbana-Champaign
University of Kansas
University of Missouri at Kansas City
University of Missouri S&T
University of Nebraska-Omaha
University of Northern Texas
University of Rochester
University of South Carolina
University of Texas at San Antonio
University of Tulsa
Vanderbilt University
Villanova University
Virginia Commonwealth University
Virginia Tech



Benefits

Benefits to AFRL/RI

- **Early access to innovation**
- **Help us stay abreast of new technology trends**
- **Enhance the RI workforce**
- **Help foster a collegial environment for research**
- **Serve as mentors for staff enrichment**
- **Source of seminar speakers**
- **Serve as a clearing house and broker for collaborative research opportunities**

Benefits to Academia

- **Interesting problems**
- **Opportunities for collaborative research**
- **Employment opportunities for students**
- **Sabbatical leave appointments**
- **Financial support for research**
- **Aid in the transition of technology to customers**
- **Connection to research opportunities with AFOSR**



Information Institute Programs



- **Education Partnership projects**
- **Extended, on-site research at the Rome Research Site**
 - Multiple Summer Research Programs
 - II Visiting Faculty Research Program
 - Summer Faculty Fellowship Program (AFOSR)
 - II Graduate Student Internship Program
 - NRC Fellows Program (AFOSR)
 - II Post Doctoral Program
 - IPAs
 - National Defense Science and Engineering Graduate (NDSEG) Fellowships
- **Workshops, Seminars, and Lectures**
- **Equipment loans and access to facilities**
- **Information Institute Research Program**



Visiting Faculty Research Program



Summer Program



- **Faculty Programs**
- **II Visiting Research Faculty Program (VFRP)**
 - Funded by II and Technical Divisions
 - <http://www.wpafb.af.mil/afrl/ri/>
- **AFOSR Summer Faculty Fellowship Program (SFFP)**
 - Currently supporting 14 slots
 - <http://www.asee.org/sffp/>
- **Summer Extension Grants**
- **Student Programs**
- **II Graduate Intern Program**
 - Compliment to the VFRP and SFFP programs
 - Provide competitive salary & housing
 - Facilitate year-round technical support & continuity





2011 AFRL/RI Summer Faculty





The Information Institute's Visiting Faculty Research Program



- **Provides research opportunities for full time faculty for 8-12 week tours during the period from May through September.**
 - The goal is to provide a rewarding experience to the highest qualified candidates from the academic research communities.
 - General Research Topics and Application Information can be found at:
 - <http://www.wpafb.af.mil/library/factsheets/factsheet.asp?id=11339>



2011 Summer Faculty Institutions

SFFP/ASEE	VFRP
Rochester Inst of Tech	Texas A&M University College
Texas A & M University	San Diego State University
Polytechnic University of NYU	Purdue University
Oklahoma State University	University at Buffalo
Florida Golf Coast University	University of Missouri Columbia
Milwaukee School of Engineering	SUNY Binghamton (4)
Syracuse University	University of Texas at Tyler
SUNY Buffalo	Syracuse University (3)
Purdue University Calumet	University of Missouri Kansas City
Missouri University of Science and Technology	Montclair State University
La Salle University	University of South Carolina
University of Missouri - Columbia	Rochester Institute of Technology (2)
University of Texas San Antonio	University of Pittsburgh
Florida Atlantic University	Syracuse University
	Michigan Tech University
	University of Texas at Dallas
	University of Missouri at St. Louis
	Tennessee State University



2010 Summer Faculty Institutions

SFFP/ASEE	VFRP
University of Missouri - Columbia	Alabama Agricultural and Mechanical University
Purdue University Main Campus	Carnegie Mellon University (3)
Oklahoma State University	University of Maryland at College Park
University of South Carolina - Columbia	Colgate University (2)
Missouri University of Science and Technology	Florida Atlantic University (2)
Arizona State University Main	Illinois Institute of Technology (2)
	Indiana University-
	Purdue University Indianapolis
	La Salle University
	Louisiana State (2)
	Mercer University
	Milwaukee School of Engineering
	Missouri University of Science and Technology
	Montclair State University
	Polytechnic Institute of NYU
	SUNY Buffalo
	SUNY Binghamton (8)
	SUNY Oneonta
	University at Albany
	University of Missouri - Kansas City
	University of Rochester
	Utica College



2009 Summer Faculty Institutions

SFFP/ASEE	VFRP
University of South Carolina	Prairie View A&M University
University of Tennessee- Chattanooga	University of Central Florida
Missouri University of Science and Technology	University of Maryland at College Park
Arizona State University	Colgate University
Oklahoma State University	University of New Mexico
University of Missouri-Columbia	Louisiana State University
	SUNY Binghamton (3)
	University of Florida
	Vanderbilt University (2)
	Binghamton University
	Mississippi State University
	Syracuse University
	Louisiana State University



Post-Doctoral Programs



- **National Research Council (NRC) Resident Research Associateship Program**
 - <http://www7.nationalacademies.org/rap/>
 - Postdoctoral Associates (within 5 years of doctorate)
 - Senior Associates (5+ years beyond doctorate)
- **Information Institute Post Doc Program**
 - Hybrid agreements supporting “non-conforming” or unfunded NRC candidates



Workshops



Information Institute's General Workshop



Sponsored by: AFCEA
Supported by: MVCC & Griffiss Institute
Participation from: Air Force Research Laboratory
& Information Institute

Info2010 CHALLENGES

conference + exposition



June 8th & 9th
**Mohawk Valley Community College
Campus**
Utica, New York

June 10th
**Griffiss Institute, Griffiss Business &
Technology Park**
Rome, New York

Register Now: www.afceaeriecanal.com



Information Institute General Workshops



- **Objective - Comprehensive interaction on Air Force Information Technology Research Interests with as many II members as possible**
- **Expected Outcome - Increased collaborations between II members and the Information Directorate and increased participation in the many research programs and opportunities available with the Information Directorate**
- **2012 Workshop in planning phase**

Assuring the Cloud

Summer Workshop

July 11, 2011 (0800-1800)

Griffiss Institute



Keynote Address: Dr. Roy Campbell, Director
Assured Cloud Computing - University Center of Excellence
(ACC-UCoE)

Sponsored by: Information Institute
Supported by: ACC-UCoE, Griffiss Institute and SUNYIT
Restricted to: AFRL/RI, Information Institute
Summer Researchers, and
Government Contractors

Registration and Technical Program Details:
www.griffissinstitute.org/iiworkshop.html

Registration is free
but space is limited



2011 Summer Workshop on Assuring the Cloud



- **Date - July 11, 2011**
- **Sponsors - AFRL/RI/ Information Institute / Assured Cloud Computing University Center of Excellence at University of Illinois (ACC-UCoE) / Griffiss Institute / SUNYIT**
- **Place - Griffiss Institute**
- **Agenda**
 - Keynote Addresses by ACC-UCoE, IBM, Harvard University
 - Presentations by ACC-UCoE
 - Presentations by Visiting Professors and RI Staff
 - Poster session by ACC-UCoE, Visiting Professors (Summer Faculty and NRC Fellows) , Graduate Students/Interns – open to all RI
- **Attendees (~100) - Restricted to Government and Government Contractors. Included RI Staff, ACC-UCoE, NRC Fellows, Summer Faculty and Students/Interns, RI Contractors (Industry and University)**



Assuring the Cloud Workshop





Assuring the Cloud Workshop





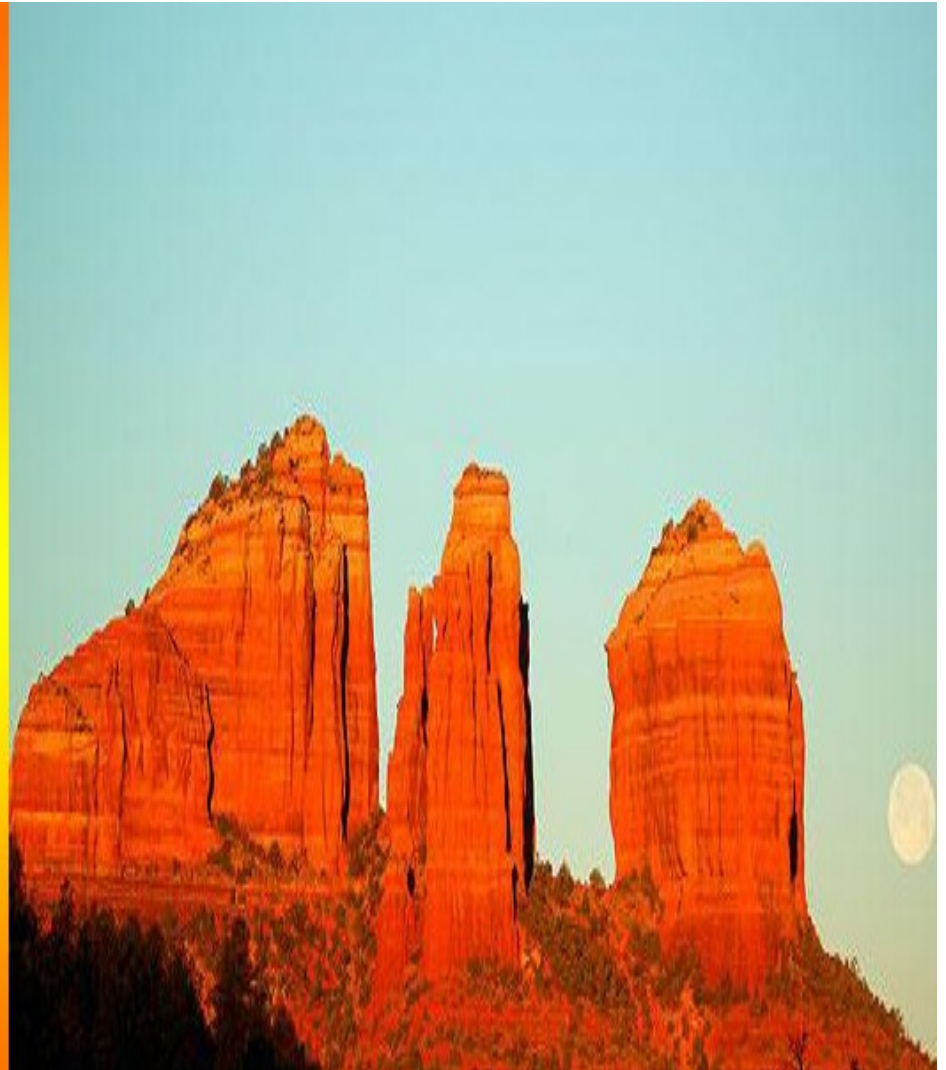
Topical Workshops



First International Workshop on

Social Computing, Behavioral Modeling, and Prediction

Phoenix (~~Sedona~~), Arizona, April 1-2, 2008





Some Topical Workshops 2002 - 2011



- **Fostering Innovation in Information Technology, 5 - 6 Dec 2002, Air Force Agency for Modeling and Simulation, Orlando, Florida**
- **Decision Sciences kick-off meeting 23 - 24 Oct 2002**
- **Decision Sciences Research Workshop, 14 - 18 Apr 2003 Minnowbrook Conference Center**
- **System Architecture, New Orleans, 21 - 23 Jan 2004**
- **CITE Way Ahead Workshop, Rome, NY, 17 Jun 2004**
- **Commander's Predictive Environment Workshop, Syracuse, NY, 3 - 4 Nov 2004**
- **First International Workshop on Social Computing, Behavior Modeling and Prediction, Phoenix AZ, 1 - 2 Apr 2008**
- **Social Computing, Behavior Modeling and Prediction, SBP09, University of Arizona, 31 Mar - 1 Apr 2009**
- **Workshop on Research Directions in Situational-aware Self-managed Proactive Computing in Wireless Ad hoc Networks, University of Missouri, 2 - 3 Mar 2009**



Information Institute Research Program



Information Institute Research Program



- **Solicits research white papers under the “Information Institute Research Program” Broad Agency Announcement BAA-11-03-RIKA**
 - Research areas of interest include innovative approaches, basic and exploratory research projects in the area of information science and technology



Information Institute Research Program



- **Efforts that will be performed as part of the II research program are intended to be collaborative university efforts designed to provide AFRL/RI with leading edge research that can be applied to a variety of AFRL/RI & Air Force needs.**
 - Universities conducting research as part of the II are encouraged to work collaboratively with other institutions and to leverage on-going AFRL/RI research programs and activities
 - For additional information contact Frank Hoke by e-mail at: Franklin.Hoke@rl.af.mil.
 - Additional information can be found at :
 - https://www.fbo.gov/index?s=opportunity&mode=form&id=2745edf875c02e45883c8478eef82cd2&tab=core&_cview=0



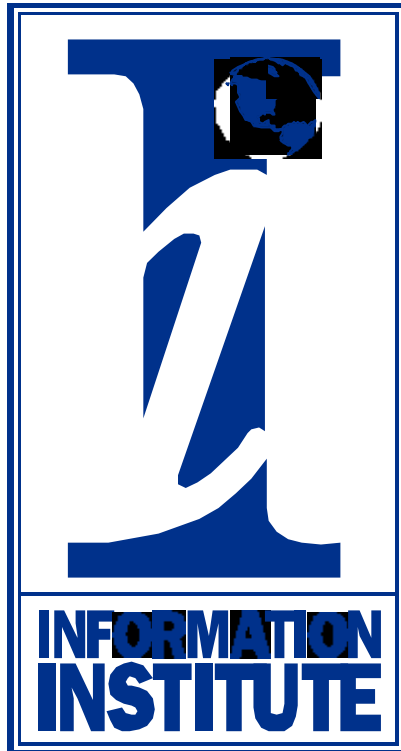
Summary



- **The Information Institute is a facilitator of strong research partnerships between academia and the AFRL/RI staff**

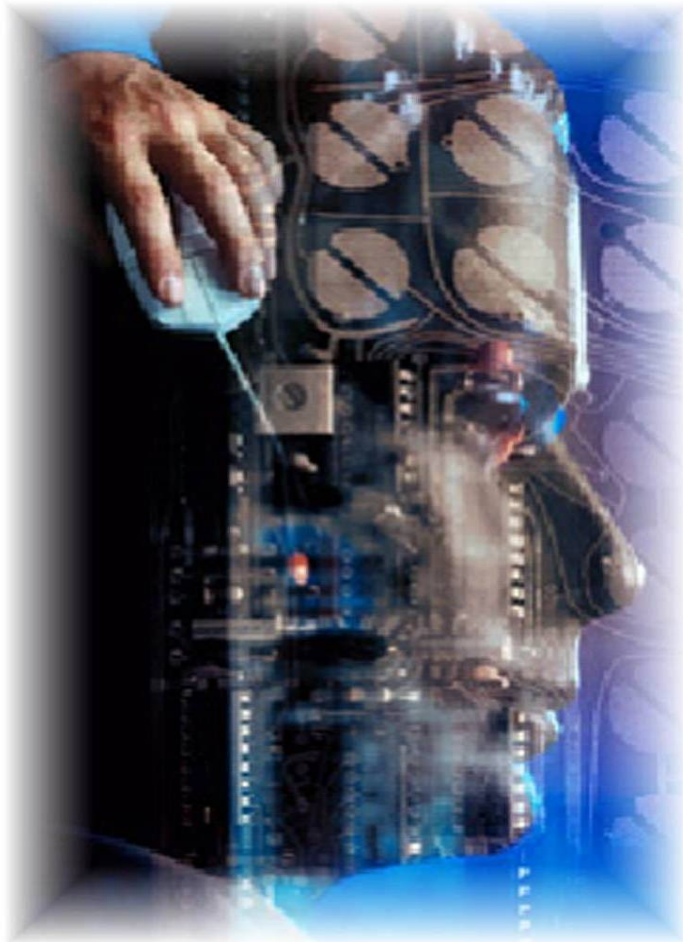


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**John A. Graniero, Contr
JAG Technologies
Director, Information
Institute
AFRL/RIB
26 Electronic Parkway
Rome, NY 13441-4514
Tel: 315-330-3251
Fax: 315-330-1725**

<http://www.wpafb.af.mil/library/factsheets/factsheet.asp?id=1133>



***“The first
essential
of air power
is pre-eminence
in research”***

***– General H.H.
Arnold, 1944***